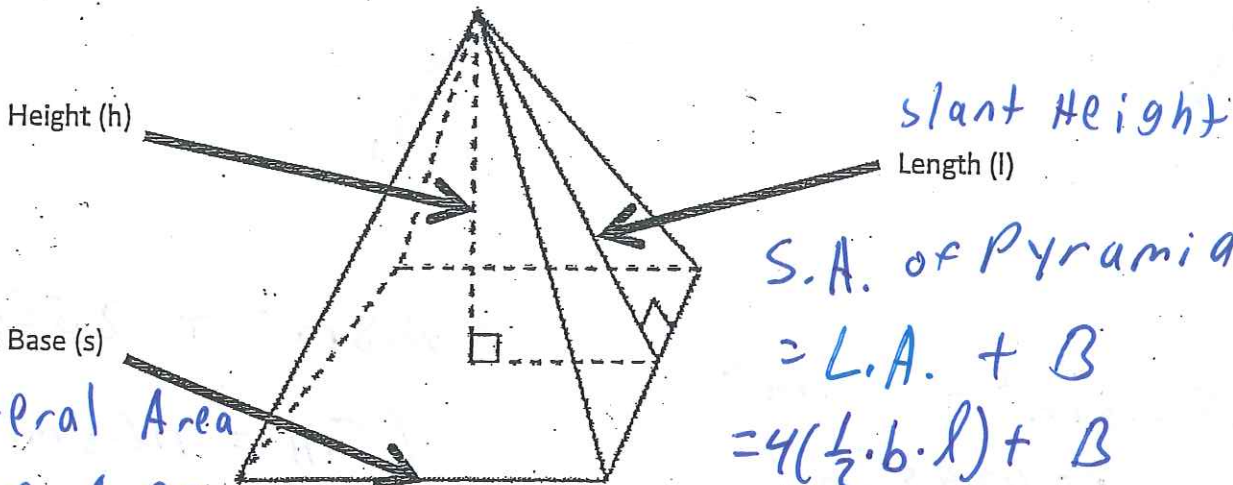


Surface Area of Pyramids

Pre-Algebra

Name: _____

Key

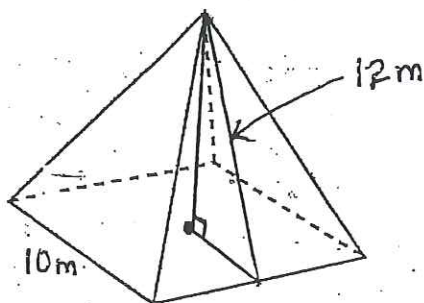


L.A. = Lateral Area
B = Base Area

$$\begin{aligned} \text{S.A. of Pyramid} &= \text{L.A.} + B \\ &= 4\left(\frac{1}{2} \cdot b \cdot l\right) + B \end{aligned}$$

Find the surface area of the following pyramids.

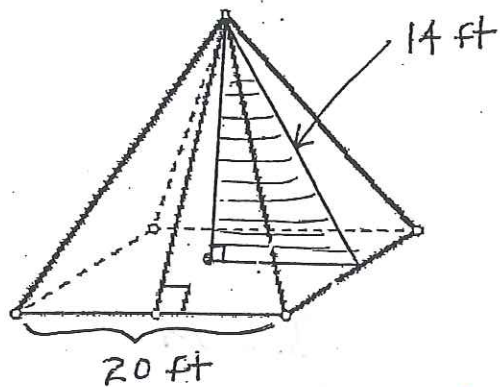
1)



$$\begin{aligned} 4\left(\frac{1}{2} \cdot 10\text{m} \cdot 12\text{m}\right) + 10\text{m} \cdot 10\text{m} \\ 240\text{m}^2 + 100\text{m}^2 \end{aligned}$$

$$\text{S.A.} = 340\text{m}^2$$

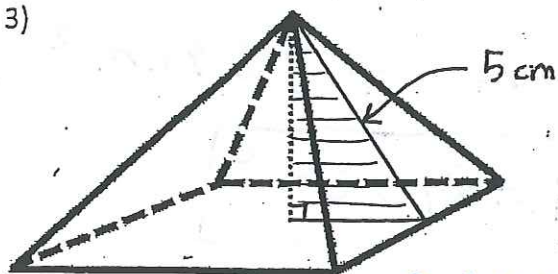
2)



$$560\text{ft}^2 + 400\text{ft}^2$$

$$\text{S.A.} = 960\text{ft}^2$$

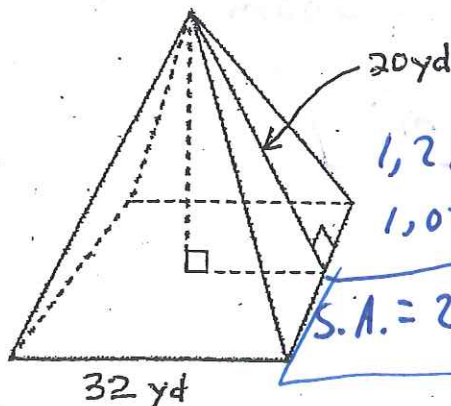
3)



$$80\text{cm}^2 + 64\text{cm}^2$$

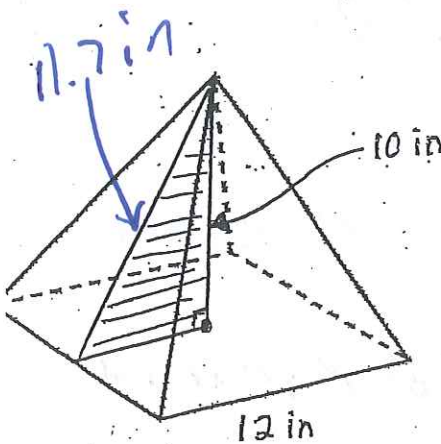
$$\text{S.A.} = 144\text{cm}^2$$

4)



$$\begin{aligned} 1,280\text{yds}^2 + \\ 1,024\text{yds}^2 \end{aligned}$$

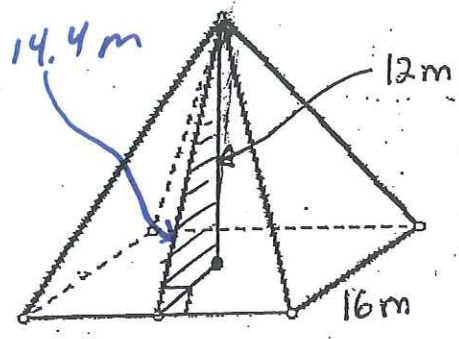
$$\text{S.A.} = 2,304\text{yds}^2$$



$$280.8 \text{ in}^2 + 144 \text{ in}^2$$

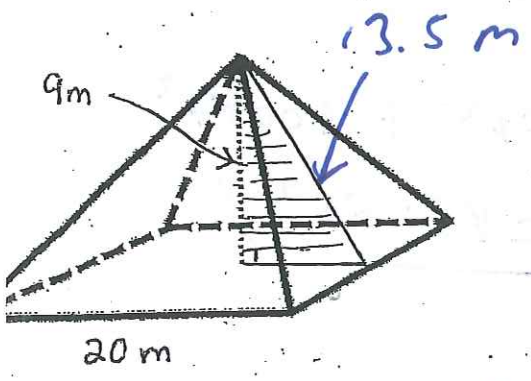
$$\boxed{S.A. \approx 424.8 \text{ in}^2}$$

6)



$$460.8 \text{ m}^2 + 256 \text{ m}^2$$

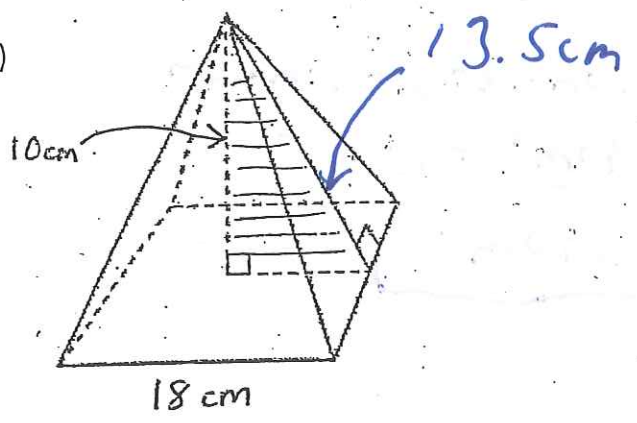
$$\boxed{S.A. = 716.8 \text{ m}^2}$$



$$540 \text{ m}^2 + 400 \text{ m}^2$$

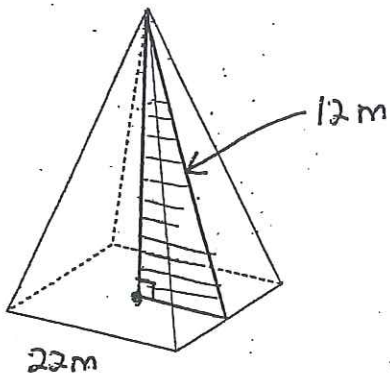
$$\boxed{S.A. \approx 940 \text{ m}^2}$$

8)



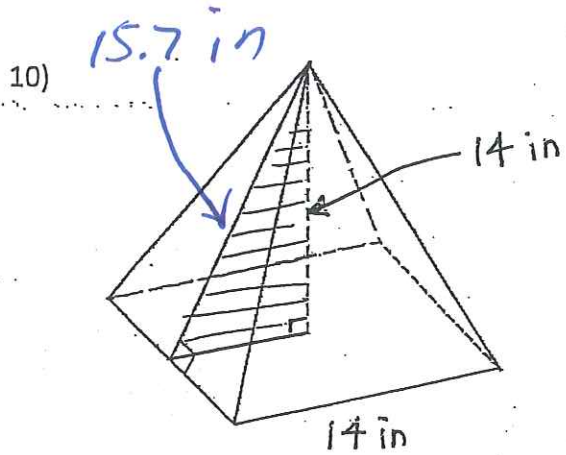
$$486 \text{ cm}^2 + 324 \text{ cm}^2$$

$$\boxed{S.A. \approx 810 \text{ cm}^2}$$



$$528 \text{ m}^2 + 484 \text{ m}^2$$

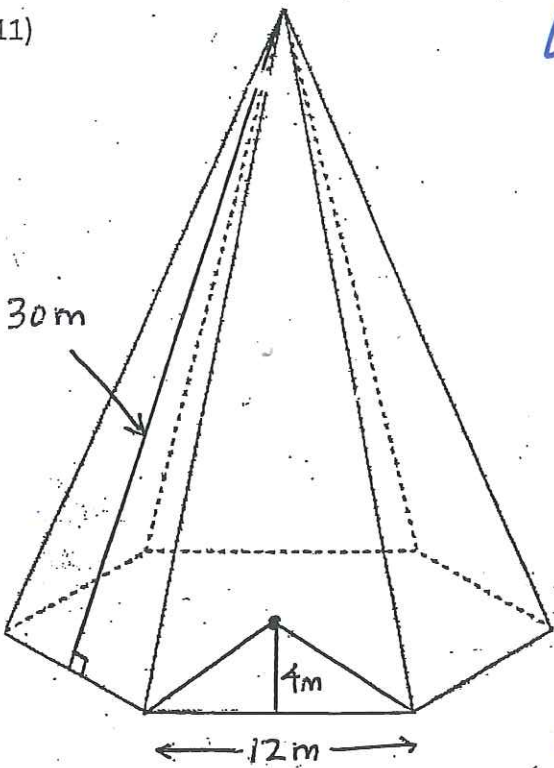
$$\boxed{S.A. = 1,012 \text{ m}^2}$$



$$439.6 \text{ in}^2 + 196 \text{ in}^2$$

$$\boxed{S.A. \approx 635.6 \text{ in}^2}$$

11)



$$L.A. = 6 \left(\frac{1}{2} \cdot 12 \text{ m} \cdot 30 \text{ m} \right)$$

$$L.A. = 6 (180 \text{ m}^2)$$

$$L.A. = 1,080 \text{ m}^2$$

$$B = 6 \left(\frac{1}{2} \cdot 12 \text{ m} \cdot 4 \text{ m} \right)$$

$$B = 6 (24 \text{ m}^2)$$

$$B = 144 \text{ m}^2$$

$$1,080 \text{ m}^2 + 144 \text{ m}^2$$

$$S.A. = 1,224 \text{ m}^2$$